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or modified such Native File; and (ii) information generated automatically

by the operation of a computer or other information technology system when

- a Native File is created, modified, transmitted, deleted or otherwise manipulated by a user of such system.
- 4. "Static Image(s)" means a representation of ESI produced by converting a Native File into a standard image format capable of being viewed and printed on standard computer systems. A Tagged Image File Format (TIFF) image is an example of a Static Image.
- 5. "Load/Unitization file" means an electronic file containing information identifying a set of paper-scanned images or processed ESI and indicating where individual pages or files belong together as documents, including attachments, and where each document begins and ends. A Load/Unitization file will also contain data relevant to the individual Documents, including extracted and user created Metadata, coded data, as well as OCR or Extracted Text.
- 6. "OCR" means the optical character recognition file which is created by software used in conjunction with a scanner that is capable of reading text-based documents and making such documents searchable using appropriate software.
- 7. "Extracted Text" means the text extracted from a Native File and includes all header, footer and document body information.

B. Form and Format for the Production of ESI and Paper Documents Converted to Electronic Form

- 1. <u>Electronic Production of Paper Documents</u>
 - a. The parties will produce any paper Documents, including spreadsheets maintained in paper form, that have been scanned or otherwise converted into electronic form as of the time the documents are first produced in this litigation. The form of production shall be:

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| 1 | i. TIFF images, consistent with the specifications in |
| 2 | Section I.B.2.b.; |
| 3 | ii. The appropriate Load/Unitization files in accordance |
| 4 | with Exhibit "A" and consistent with the |
| 5 | specifications in Section I.B.5.; and |
| 6 | iii. Any searchable OCR text of scanned paper |
| 7 | Documents created by the producing party, if any, |
| 8 | consistent with the specifications in Section I.B.4. |
| 9 | b. This Stipulation creates no obligation upon the producing |
| 10 | party to convert paper documents into electronic form. |
| 11 | c. If, however, the producing party has converted paper |
| 12 | documents into electronic form as of the time the documents |
| 13 | are first produced in this litigation, the producing party shall |
| 14 | produce those documents in accordance with this Stipulation |
| 15 | 2. <u>Native Files to be Produced as Static Images</u> |
| 16 | a. Except as otherwise stated below, or by order of the Special |
| 17 | Master, Native Files will be produced to the requesting party |
| 18 | as Static Images together with Load/Unitization files |
| 19 | specified below. |
| 20 | b. All Static Images will be produced as single page Black & |
| 21 | White, Group 4 TIFF (.TIF or .TIFF) files at 300 x 300 dpi |
| 22 | resolution and 8.5 x 11 inch page size, except for documents |
| 23 | that in the producing party's reasonable judgment require a |
| 24 | different resolution or page size; provided, however, if a |
| 25 | color image is produced in black and white, the receiving |
| 26 | party may request the producing party to produce the origina |
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| 1 | | color image, as single page, color Joint Photographic Experts |
| 2 | | Group (.JPEG or .JPG) files. |
| 3 | c. | All Static Image file names shall match the Bates number |
| 4 | | assigned to the image. |
| 5 | 3. <u>Production</u> | of Native Files |
| 6 | a. | The parties agree to produce Native Files of spreadsheet |
| 7 | | application files (e.g., MS Excel), presentation application |
| 8 | | files (e.g. MS PowerPoint), and multimedia audio/video files |
| 9 | | (e.g., .wav, .mpeg, .avi), subject to the right of the producing |
| 10 | | party to object to the native production of files where such |
| 11 | | production would result in the disclosure of information that |
| 12 | | is protected from disclosure by the attorney-client privilege |
| 13 | | or the work product doctrine. |
| 14 | b. | The parties agree to meet and confer informally regarding the |
| 15 | | production of database application files (e.g., MS Access, |
| 16 | | SQL, SAP) to determine the most reasonable form of |
| 17 | | production based on the specific circumstances at hand. |
| 18 | | Notwithstanding the foregoing, a party may elect to produce |
| 19 | | Native Files of portable database application files (e.g., |
| 20 | | MS-Access) without the need to meet and confer regarding |
| 21 | | the form of production. |
| 22 | c. | A receiving party may request that the producing party |
| 23 | | produce the Native File corresponding to a produced Static |
| 24 | | Image, subject to reasonable objection by the producing party. |
| 25 | | The request for production of any specific Native Files(s) |
| 26 | | shall include the Bates numbers of the TIFF documents to |
| 27 | | identify the corresponding Native File. Any produced Native |
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File will include the Bates number of the first page of the Bates range that corresponds to the TIFF image, followed by a carat delimiter, which shall be appended as a prefix to the file name.

- d. Through the pendency of the action, the producing party should exercise reasonable, good faith, efforts to maintain all preserved and collected Native Files in a manner that does not materially alter or modify the file or the Metadata.
- e. No party may attach to any pleading or any correspondence addressed to the Court, Special Master, or any adverse or third party, or submit as an exhibit at a deposition or any other judicial proceeding, a copy of any native format document produced by any party without ensuring that the corresponding Bates number and confidentiality legend, as designated by the producing party, appears on the document.

4. Production of Searchable Text

- a. ESI shall be produced with multi-page searchable Extracted
 Text. For ESI from which text cannot be extracted, OCR will
 be produced instead, but only to the extent the producing
 party has created OCR as of the time the documents are first
 produced in this litigation, consistent with Section B (1) of
 this agreement.
- b. Any such Extracted Text or OCR will be produced on a document level as .TXT files, with the Text filename matching the Bates number applied to the first page of the corresponding image file followed by .TXT. Text files will be located in a directory named "TEXT" that is separate from

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the TIFF image. Text files containing foreign,
non-English, language text must be converted to
standard 8-bit Unicode Transformation Format (UTF-8)
format by the producing party prior to production.

5. Production of Load/Unitization Files

- a. There will be two Load/Unitization files accompanying all productions of ESI. One will be a Metadata import file, in .dat format, that contains the agreed- upon Metadata fields in an ASCII text file using either Concordance default delimiters or ^ carat and | pipe delimiters to separate the fields and records. The second data file will be a cross-reference file that contains the corresponding image information. The acceptable formats for the cross-reference files are .log, .opt, .lfp. Image load files should indicate page breaks. A path to the corresponding .TXT file shall be included as a field in the Metadata import file.
- b. The appropriate Metadata import file will contain the Metadata fields detailed and described in Exhibit A to this stipulation and incorporated herein by reference, associated with each electronic document (or their equivalents), including the body of the document, to the extent the fields exist as electronic Metadata associated with the original electronic documents or are created as part of the electronic data discovery process. Party-specific exceptions to the required fields in Exhibit A are memorialized in separate side letter agreements, which are attached hereto as Addenda. The attached list of fields does not create any obligation to

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create or manually code fields that are not automatically generated by the processing of the ESI, or that do not exist as part of the original Metadata of the document; provided however, the producing party must populate the SOURCE and CUSTODIAN fields for all produced ESI, as well as paper Documents converted to electronic form as of the time the documents are first produced in this litigation, regardless of whether these fields would be generated during typical processing of such documents. A producing party shall have no obligation to provide FILEPATH information for documents that a receiving party specifically requested and the producing party collected by document type.

c. Any Native Files produced will be accompanied with a

Metadata import file that shall contain (i) the full directory

path and file names of the Native File(s) as contained in the

produced media and (ii) a uniform hash calculation field.

6. Processing Specifications

- a. When processing ESI, GMT should be selected as the time zone. To the extent that a party has already processed ESI using a different time zone, the producing party will note the time zone used in its processing. Parties shall consistently produce all ESI processed using the same time zone.
- b. When processing ESI for review and for production in TIFF format, the producing party will instruct its vendor to force off Auto Date and force on hidden columns or rows, hidden worksheets, speaker notes, track changes, and comments.

| 1 | | 7. <u>General</u> | |
|----|-----|-------------------------------|---|
| 2 | | a. | The producing party shall use reasonable efforts to avoid |
| 3 | | | producing system and application files. |
| 4 | | b. | If the producing party redacts all or any portion of a Static |
| 5 | | | Image, redactions not clearly indicated on the Static Image |
| 6 | | | shall be noted in a user-generated field specified in Exhibit |
| 7 | | | "A", which the producing party shall provide in the |
| 8 | | | appropriate Load/Unitization file. |
| 9 | | c. | The parties may de-duplicate identical ESI vertically, by |
| 10 | | | custodian, or horizontally (i.e., globally). All custodians who |
| 11 | | | were in possession of a de-duplicated Document must be |
| 12 | | | identified in the CUSTODIAN_OTHER Metadata field |
| 13 | | | specified in Exhibit "A", and all BCC recipients whose |
| 14 | | | names would have been included in the BCC Metadata field |
| 15 | | | but are excluded as the result of horizontal/global |
| 16 | | | de-duplication, must be identified in the BCC_OTHER |
| 17 | | | Metadata field specified in Exhibit "A". |
| 18 | II. | TERM OF AGREEME | ENT |
| 19 | | This Agreement shall co | ntinue in full force and effect until further order of the Court or |
| 20 | | until this litigation is terr | minated by a final judgment. |
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| 22 | | IT IS SO STIPU | JLATED. |
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| | | Samsung SDI Brasil Ltda., |
| 12 | | Shenzen Samsung SDI Co., Ltd., and Tianjin Samsung SDI Co., Ltd. |
| 13 | | Tungui Sumsung SDI Co., Liu. |
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Case 3:07-cv-05944-JST Document 828 Filed 12/16/10 Page 11 of 25

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| 18 | | Attorneys for Defendants Panasonic Corporation of North |
| 19 | | America, MT Picture Display Co., Ltd. and Panasonic |
| | | Corporation (f/k/a Matsushita Electric Industrial Co., |
| 20 | | Ltd.) |
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| 8 | | , |
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| 16 | | America Corporation and Koninklijke Philips Electronics |
| 17 | | |
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| 19 | Dated. November 6, 2010 | KENT M. ROGER, State Bar No. 095987 |
| 20 | | DIANE L. WEBB, State Bar No. 197851 MICHELLE PARK CHIU, State Bar No. 248421 |
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Case 3:07-cv-05944-JST Document 828 Filed 12/16/10 Page 13 of 25

| 1 | Dated: October 29, 2010 | /s/ Lucius B. Lau |
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| 10 | | and Toshiba America Electronic Components, Inc. |
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| 12 | | |
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| 20 | | Attorneys for Tatung Company of America, Inc. |
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| 1 | Dated: October 22, 2010 | /s/ Christine Laciak CHRISTINE LACIAK |
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| 6 | | Tel: (202) 777-4566 |
| 7 | | Fax: (202) 777-4555 |
| 8 | | Attorneys for Defendant Beijing Matsushita Color CRT Company, Ltd. |
| 9 | | - |
| 10 | | |
| 11 | Pursuant to General O | rder, § X-B, the filer attests that the concurrence in the filing of |
| 12 | this document has been obtain | ned from each of the above signatories. |
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| 14 | PURSUANT TO STI | PULATION, IT IS SO ORDERED. |
| 15 | | ES DISTRIC |
| 16 | Dated: 12/16/10 | |
| 17 | | Honorable Sal IT IS SO ORDERED United States I |
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Exhibit A

Metadata Fields for Production

Note: Metadata Field names may vary depending on the application which generate them. For example, Microsoft Outlook creates different Metadata Field names than does Lotus Notes. Accordingly, the chart below describes the Metadata Fields to be produced in generic, commonly used terms which the Producing Party is to adapt to the specific types of ESI it is producing. Any ambiguity about a Metadata Field is to be discussed with the Receiving Party prior to processing the subject ESI for production.

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| | Field | Definition |
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| 1 | SOURCE | Name of party producing the document |
| 2 | CUSTODIAN | Name of person from whose files the document is produced |
| 3 | CUSTODIAN_ OTHER | Name of person(s), in addition to the Custodian, from whose files the document would have been produced if it had not been de-duplicated. |
| 4 | BEGBATES | Beginning Bates Number (production number) |
| 5 | ENDBATES | End Bates Number (production number) |
| 6 | PGCOUNT | Number of pages in the document |
| 7 | FILESIZE | File Size |
| 8 | APPLICAT | Application used to create document |
| 9 | FILEPATH | File source path for all electronically collected documents, which includes location, folder name, file name, and file source extension |
| 10 | NATIVEFILELINK | For documents provided in native format only |
| 11 | TEXTPATH | File path for OCR or Extracted Text files per paragraph (d) above |
| 12 | REDACTED | User-generated field that will indicated redactions made to Static Images, if such redactions are not clearly indicated on the Static Image |
| 13 | FOREIGNLANG | The existence of any foreign (non-English) language text in a document, as identified during processing or review by the producing party |

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| | Field | Definition | Doc Type |
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| 14 | HANDWRITING | The existence of any handwritten text in a | All |
| | | document, as identified during processing or | |
| | | review by the producing party | |
| 15 | MSGID | Hash or SHA Value for Emails | Email |
| 16 | FROM | Sender | Email |
| 17 | TO | Recipient | Email |
| 18 | CC | Additional Recipients | Email |
| 19 | BCC | Blind Additional Recipients | Email |
| 20 | BCC_OTHER | Blind Additional Recipients who would have | Email |
| | | shown in the "BCC" field had the originally sent | |
| | | Native email not been de-duplicated. | |
| 21 | SUBJECT | Subject line of email | Email |
| 22 | PARENTBATES | BeginBates number for the parent email of a | Email |
| | | family (will not be populated for documents that | |
| | | are not part of a family) | |
| 23 | ATTACHBATES | Bates number from the first page of each | Email |
| | | attachment | |
| 24 | BEGATTACH | First Bates number of family range (i.e. Bates | Email |
| | | number of the first page of the parent email) | |
| 25 | ENDATTACH | Last Bates number of family range(i.e. Bates | Email |
| | | number of the last page of the last attachment) | |
| 26 | ATTACHCOUNT | Number of attachments to an email | Email |
| 27 | ATTACHNAME | Name of each individual attachment | Email |
| 28 | DATESENT | Date Sent | Email |
| | (mm/dd/yyyy) | | |
| 29 | TIMESENT | Time Sent | Email |
| 30 | DATERCVD | Date Received | Email |
| 31 | TIMERCVD | Time Received | Email |
| 32 | CAL_START | Calendar/ Appointment start date and time | Email, |
| | | | Various |
| 33 | MSGCLASS | Type of item, e.g. email, calendar item, contact, | Email, |
| | | note, task | Various |
| 34 | Attendees/ | Calendar/Appointment | Email, |
| | Participants | Attendees/Participants/Recipients | Various |
| 35 | HASHVALUE | MD5 Hash or SHA Value for Edocs | Edocs |
| 36 | RECORDTYPE | Descriptive field created by the vendor | All |
| | | processing software (e.g. email, edoc, image, attachment) | |
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| 37 | TITLE | Title field value extracted from the metadata of the native file. | Edocs |

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| | Field | Definition | Doc Type |
|----|--------------|--|-------------|
| 39 | DATECRTD | Creation Date | Edocs |
| | (mm/dd/yyyy) | | |
| 40 | TIMCRTD | Creation Time | Edocs |
| 41 | LASTAUTHOR | Last Saved field contained in the metadata of the | Edocs |
| | | native file | |
| 42 | LASTMODD | Last Modified Date | Edocs |
| | (mm/dd/yyyy) | | |
| 43 | LASTMODT | Last Modified Time | Edocs |
| 44 | FILEEXT | File extension of the native file (e.g., XLS, DOC, | All |
| | | PDF) | |
| 45 | MAILSTORE | Original path of mail store | Email, |
| | | | various |
| 46 | SENSITIVITY | Sensitivity field extracted from native email | Email, |
| | | message other other Outlook item. | various |
| 47 | CONVERSATION | Email thread identifier. | Email |
| | _INDEX | | |

iii

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| 21 | LINITED STAT | ES DISTRICT COURT | |
| 22 | | | |
| 23 | NORTHERN DIS | TRICT OF CALIFORNIA | |
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| 25 | In Re CATHODE RAY TUBE (CRT) ANTITRUST LITIGATION, | No.: M-07-5944 SC | |
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ADDENDUM TO STIPULATED ORDER REGARDING PRODUCTION OF ESI

DB2/22038368.1

This Document Relates to:

ALL ACTIONS.

ADDENDUM TO STIPULATED ORDER REGARDING THE PRODUCTION OF ELECTRONICALLY STORED INFORMATION

WHEREAS, Hitachi, Ltd., Hitachi Displays, Ltd., Hitachi Asia, Ltd., Hitachi America, Ltd., and Hitachi Electronic Devices (USA), Inc. (collectively the "Hitachi Defendants") have informed the Indirect Purchaser Plaintiffs and Direct Purchaser Plaintiffs (jointly "Plaintiffs") that their vendor is incapable of producing four metadata fields identified in Exhibit A to the Stipulated Protective Order regarding the Production of Electronically Stored Information (the "Stipulated Order") at Row 32 (CAL_START), ROW 34 (ATTENDEES/PARTICIPANTS), Row 41 (LAST AUTHOR), and Row 46 (SENSITIVITY);

WHEREAS, the Hitachi Defendants further have informed Plaintiffs that to produce the metadata identified in Exhibit A to the Stipulated Order at Row 47 (CONVERSATION_INDEX), would be overly burdensome and costly;

WHEREAS, the Hitachi Defendants have requested, based on the foregoing, to be excused from producing the five above-mentioned metadata fields; and

WHEREAS, Plaintiffs are willing to enter into this Addendum to the Stipulated Order based on the verbal and written representations made by Counsel to the Hitachi Defendants and the Hitachi Defendants' electronic discovery vendor, Iron Mountain/Stratify.

NOW, THEREFORE,

- 1. Plaintiffs and the Hitachi Defendants agree that as to any document production by any of the Hitachi Defendants that would be subject to the Stipulated Order, the Parties acknowledge and agree that the Hitachi Defendants are not obligated to produce the five following metadata fields:
 - a. CAL START
 - b. ATTENDEES/PARTICIPANTS
 - c. LAST AUTHOR

CASE NO. M-07-5944 SC

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e. CONVERSATION INDEX

2. If, following the entry of this Stipulation, the Hitachi Defendants acquire the capability of processing and producing, without subjecting the Hitachi Defendants to undue burden or costs, one or more of the above-listed metadata fields (*i.e.*, CAL_START, ATTENDEES/PARTICIPANTS, LAST AUTHOR, SENSITIVITY, or CONVERSATION_INDEX), the Hitachi Defendants agree to include such metadata field or fields in all future document productions to Plaintiffs.

This Agreement shall continue in full force and effect until further order of the Special Master or until this litigation is terminated by a final judgment.

IT IS SO STIPULATED.

3 CASE NO. M-07-5944 SC

Case 3:07-cv-05944-JST Document 828 Filed 12/16/10 Page 21 of 25

| Dated: November 8, 2010 | /s/ Mario N. Alioto |
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| | Ltd., Hitachi Electronic Displays (USA), Inc. |
| | |
| Pursuant to General Order, § X-B | , the filer attests that the concurrence in the filing of this |
| document has been obtained from each of | f the above signatories. |
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| 1 | Counsel Listed On Signature Block | |
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| 8 | UNITED STATES | S DISTRICT COURT |
| 9 | NORTHERN DISTI | RICT OF CALIFORNIA |
| 10 | |) No.: M-07-5944 SC |
| 11 | In Re CATHODE RAY TUBE (CRT) ANTITRUST LITIGATION |)) MDL NO. 1917 |
| 12 | | <u> </u> |
| 13 | This Document Relates to: | ADDENDUM TO STIPULATED ORDERREGARDING THE PRODUCTION OF |
| 14 | ALL ACTIONS. |) ELECTRONICALLY STORED) INFORMATION |
| 15 | | _) |
| 16 | | |
| 17 | WHEREAS, Panasonic Corporation, | Panasonic Corporation of North America and MT |
| 18 | Picture Display Co., Ltd. (the "Panasonic Do | efendants") have informed the Indirect Purchaser |
| 19 | Plaintiffs and Direct Purchaser Plaintiffs of pe | otential issues with producing two metadata fields |
| 20 | identified in Exhibit A to the Stipulated Order | regarding the Production of Electronically Stored |
| 21 | Information (the "Stipulated Order") at Row | 32 (CAL_START) and Row 46 (SENSITIVITY); |
| 22 | WHEREAS, the Panasonic Defenda | nts have represented that they will continue to |
| 23 | undertake reasonable, good-faith efforts to | work with their vendor to extract this metadata |
| 24 | while processing the native Electronically S | tored Information and subsequently include that |
| 25 | metadata in their productions; | |
| 26 | AND WHEREAS, the Panasonic De | fendants, Indirect Purchaser Plaintiffs and Direct |
| 27 | Purchaser Plaintiffs are otherwise in mutual | agreement with all other terms and conditions as |
| 28 | set forth in the Stipulated Order. | |

NOW, THEREFORE, 1. The Panasonic Defendants agree to continue to undertake reasonable, good-faith efforts to resolve the issues with their vendor in extracting the above-identified CAL START and SENSITIVITY metadata fields during processing. 2. The Panasonic Defendants, Indirect Indirect Purchaser Plaintiffs and Direct Purchaser Plaintiffs agree to continue to informally meet and confer regarding this matter. 3. The Panasonic Defendants, Indirect Indirect Purchaser Plaintiffs and Direct Purchaser Plaintiffs agree to submit an amendment to this Addendum setting forth their mutually agreed upon final resolution to this matter within forty-five days following filing of the Stipulated Order. This Agreement shall continue in full force and effect until further order of the Special Master or until this litigation is terminated by a final judgment. IT IS SO STIPULATED.

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Case 3:07-cv-05944-JST Document 828 Filed 12/16/10 Page 25 of 25

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| 19 | Liu | <i>)</i> |
| 20 | | |
| | Pursuant to General Order, § X-B, the filer attests that the concurrence in the filing of | |
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| 22 | this document has been obtained from each of the above signatories. | |
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